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**The development and 3D geometry of porphyroblast
inclusion trails: significance for the tectonic evolution
of the Lebanon Antiformal Syncline,
New Hampshire**

Volume I: Text

Thesis submitted by
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in July, 2007

for the degree of Doctor of Philosophy
in the School of Earth and Environmental Sciences

James Cook University

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Matthew Donald Bruce

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Statement on the Contribution of others

Tim Bell developed the technique central to this study. He initiated the project, spent long hours working with me on a dual headed microscope and edited all drafts. Funding for fieldwork and analysis was provided from an ARC Large grant to Tim Bell and a JCU Doctoral Merit Research Scheme grant to Matt Bruce. Stipend support was received from a JCU School of Earth Sciences Scholarship and a JCU Postgraduate Research Scholarship.

Tim Bell is co-author of Sections 2 & 3 and these have been published as papers in the Journal of Structural Geology. Domingo Aerden and Kyuichi Kanagawa provided critical reviews of Section 1 which greatly improved the manuscript. James Lally collected samples TC1365 and TC1365i (Section 2) and brought them to our attention.

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